### Manko Gold & Katcherilp

January 24, 2001

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An Environmental Law Practice

#### VIA HAND DELIVERY

Anderson Lee Hartzell, Esquire Regional Supervising Counsel PADEP - Office of Chief Counsel Southeast Regional Office Lee Park, Suite 6010 555 North Lane Conshohocken, PA 19428

Re: <u>Crater Resources Superfund Site - Quarry 4</u>

Dear Andy:

We represent Liberty Property Limited Partnership and Liberty Property Trust (collectively, "Liberty"). As you requested, we are submitting to you in advance of our meeting, a summary of the legal and technical issues presented by Liberty's proposal for satisfying the capping requirements for Quarry 4 as set forth in the Record of Decision ("ROD") for the Crater Resources Superfund Site (the "Crater Site").

As I mentioned in my previous correspondence, Liberty is the owner of property at the Crater Site commonly referred to as the Yellow Property, which is located south of Renaissance Boulevard and includes the 2201 and 2301 Renaissance Boulevard properties. The Yellow Property contains a portion of a former sand and gravel quarry (Quarry 4) that was backfilled close to 30 years ago. The U.S. Environmental Protection Agency ("EPA") conducted a Remedial Investigation/ Feasibility Study ("RI/FS") of the Crater Site, which included investigation of four quarries - Quarry Nos. 1 through 4. Only Quarry 4 is located on Liberty's Yellow Property. Quarry Nos. 1 through 3 are located off-site and to the south and west of the 2201 and 2301 properties. The RI/FS showed that Quarry Nos. 1 through 3 received waste ammonia liquor ("WAL"), the waste of concern at the Crater Site. Unlike the other quarries at the Crater Site, there is no evidence that any WAL was ever discharged into Quarry 4. While some anthropogenic constituents have been discovered in Quarry 4, it is believed that these came from fill material placed in the quarry close to 30 years ago. As discussed later in this letter, sampling data shows that no compounds of concern attributable to the materials historically used to fill Quarry 4 were detected above applicable regulatory levels in groundwater hydraulically downgradient of Ouarry 4.

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EPA has issued a ROD for the Crater Site, which requires that all four quarries be capped in accordance with Pennsylvania regulations for residual waste landfill caps at 25 Pa. Code §§ 288.234 and 288.236-237. Pursuant to a settlement being negotiated with EPA, Liberty intends to cap that portion of Quarry 4 located on its Yellow Property (the on-site portion) and possibly the remainder of Quarry 4 located on neighboring property to the south owned by Gulph Mills Golf Course (the off-site portion). Liberty has already capped much of Quarry 4 in the course of its development of office buildings at the property and believes that the existing conditions over the quarry satisfy Pennsylvania's residual waste landfill cap requirements. The purpose of our meeting is to make this demonstration to the Pennsylvania Department of Environmental Protection ("PADEP") and EPA, obtain their concurrence, and then make a final decision as to Liberty's capping of the off-site portion.

PADEP regulations governing final cover for residual waste landfills, set forth at 25 Pa. Code § 288.234, require that the landfill be covered with a cap of clay or synthetic material, followed by a drainage layer, and a uniform layer of cover material. 25 Pa. Code § 288.234(a). The regulations set forth more particularized requirements for the top two layers, but also provide that PADEP may waive or modify the cap and drainage layer requirements based upon a demonstration that it is not necessary to limit infiltration. 25 Pa. Code § 288.234(b). Further, the regulations afford PADEP the discretion to approve site-specific design requirements for the uniform layer of material and, in the absence of such, set forth default design requirements. 25 Pa. Code § 288.234(e). Finally, the regulations set forth requirements for revegetation of the cover. 25 Pa. Code §§ 288.236-237.

Enclosed with this letter is a report (the "Report") prepared by Liberty's technical consultant, Penn E&R, that describes the existing cover that has been placed over Quarry 4 and demonstrates why such cover satisfies the regulatory requirements and/or meets the criteria for modification of the standard requirements. The Report further describes site-specific design requirements appropriate for the uniform layer of cover material over the cap and drainage layers. As noted above, the Yellow Property includes the 2201 and 2301 Renaissance Boulevard properties. Liberty has already developed 2201 Renaissance Boulevard with an office building, associated parking lots, and a "dry" stormwater detention basin. Liberty is now in the process of developing 2301 Renaissance Boulevard with a second office building, associated parking lots, and two "wet" stormwater detention basins. Figure 1 of the Report shows the location and layout of these properties in relation to Quarry 4. It also shows that the quarry is covered by (1) a small portion of the southern end of the 2201 building, (2) parking lots associated with the 2201 building, (3) the dry stormwater detention basin, (4) a portion of one of the wet stormwater detention basins, and (5) varying depths of graded and vegetated soil cover. Figure 1 outlines the surface of Quarry 4 in relation to these features in two colors, yellow and blue. As demonstrated in the Report, Liberty believes that the yellow shaded areas satisfy the standard residual waste landfill cap requirements and the blue shaded areas satisfy the criteria, set forth in 25 Pa. Code § 288.234(b), pursuant to which PADEP may modify the standard cap and drainage layer requirements based on a demonstration that it is not necessary to limit infiltration.

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The yellow shaded areas on Figure 1 meet or exceed PADEP's standard cap and drainage layer requirements. These areas consist of: (1) the entire existing dry stormwater detention basin, (2) a portion of the side wall of one wet stormwater detention basin, and (3) a small portion of the southern end of the 2201 Renaissance building. The dry detention basin has already been lined with an impermeable 40-mil PVC liner, covered with soil, and revegetated. A 40-mil PVC liner will also be used to line the small portion of the western end of the quarry that lies beneath the area where the new wet stormwater detention basin is to be constructed. That area, like the dry basin, will also be covered with soil and revegetated in accordance with 25 Pa. Code § 288.236. The detention basins have been designed so that no erosion of the soil layer overlying the liner will occur. Water in both the dry basin and the wet basin will drain to a natural swale located to the west of Quarry 4. The Report provides further detail regarding the construction of the basins and demonstrates that the material on top of the liners serves as an appropriate uniform layer of material for these features and meets the applicable performance standards set forth in 25 Pa. Code § 288.234(d) (i.e., preventing vectors, covering waste, noncombustible, capable of preventing frost damage, etc.). When site-specific alternative design requirements such as these are established, the default provisions set forth at 25 Pa. Code § 288.234(e) are not applicable. 25 Pa. Code § 288.234(e).

Penn E&R has also identified in yellow shading on Figure 1, a small portion of the southern end of the 2201 Renaissance building that is located above Quarry 4. This four-story building meets and exceeds the residual waste capping requirements. The building is constructed of concrete, a bentonite-like material, recognized as suitable for capping in Table II of the cap design standards, and it is far less permeable than the maximum permeability standard 1.0 x 10-7 described in 25 Pa. Code § 288.234(a). No water will be able to infiltrate through the building into the underlying section of Quarry 4. The drainage layer consists of the gutters and water collection facilities on the roof of the building. All water that collects on top of the building will be transmitted from the roof to the on-site stormwater detention basins which themselves satisfy the PADEP residual waste capping requirements. The roof of the building serves as a sufficient layer of uniform material to protect the cap (i.e., the building). Obviously, no vegetation is necessary to protect the building as a cap. We, therefore, believe that the building satisfies the capping requirements for this portion of Quarry 4.

The blue shaded areas shown on Figure 1 satisfy the criteria, set forth in 25 Pa. Code § 288.234(b), pursuant to which PADEP may modify the standard cap and drainage layer requirements for residual waste landfill cover. That section of the regulations provides that PADEP may waive or modify the standard cap and drainage layer requirements based upon a demonstration that it is not necessary to limit infiltration into the waste. 25 Pa. Code § 288.234(b). The blue shaded areas on Figure 1 consist of: (1) parking lots associated with the 2201 Renaissance building and (2) varying depths of vegetated soil cover graded to promote surface water runoff from the quarry. As set forth in more detail in the Report, the blue shaded areas all have been or will be covered and graded sufficiently to limit infiltration into the historic fill material below. The northcentral portion of Quarry 4 is covered with more than 12 feet of soil and is further capped by an asphalt parking lot. The remainder of the blue shaded area over the quarry has been or will be covered with at least one foot of soil, graded to promote surface

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water runoff from the quarry, and revegetated. In fact, the portion of the quarry located on the 2201 Renaissance property, which includes over 80 percent of the quarry, has been or will be covered with more than three feet of soil and graded to direct surface water off the quarry. The soil cover will be graded in accordance with 25 Pa. Code § 288.234(f) and will be sloped so that water drains from the soil cover to a natural drainage swale located to the south and west of Quarry 4. The soil cover will be revegetated in accordance with 25 Pa. Code § 288.236. Further, and most significantly, the Report demonstrates that no unacceptable leaching of any contaminants from Quarry 4 is currently occurring and the capping and grading described in this paragraph is or will be sufficient to limit infiltration into the quarry.

As indicated at the outset, unlike the other quarries at the Crater Site, there is no evidence that any WAL, the waste of concern at the Crater Site, was ever discharged into Quarry 4. While some anthropogenic constituents have been discovered in Quarry 4, it is believed that these came from fill material placed in the quarry close to 30 years ago. To date, no compounds of concern have been detected above EPA's Maximum Contaminant Levels ("MCLs") or PADEP's Medium Specific Concentration levels ("MSCs") in groundwater hydraulically downgradient of Quarry 4 which were attributable to the materials historically used to backfill Quarry 4. Accordingly, no contaminants have migrated nor are expected to migrate from infiltration of waters into the quarry in the future.

As summarized above and as demonstrated in the Report, the existing and planned cap for Quarry 4 satisfies PADEP requirements and/or meets the regulatory criteria for modification of the standard requirements. We therefore are requesting PADEP's concurrence in this determination so that Liberty may promptly resolve its remedial obligations for the Crater Site with EPA. If you have any questions concerning this letter or the enclosed Report, please feel free to contact us. Otherwise, we look forward to meeting with you on Thursday to discuss these issues.

Sincerely,

Brenda Hustis Gotanda

For MANKO, GOLD & KATCHER, LLP

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BHG/gb Enclosure

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Andrew Duchovnay, Esquire (EPA) (w/encl.) ✓

Mr. Bruce Hartlein (w/encl.)
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Mr. Darryl D. Borrelli (w/encl.)

### Penn E&R's Discussion on Quarry No. 4

#### January 25, 2001

#### QUARRY NO. 4

- History and Location
- Investigation of Soil Conditions in Quarry No. 4
  - Three Previous Investigations
  - Twenty-Two Soil Samples Submitted for Analysis
  - Soil Sample Results:

VOCs SVOCs Pesticides/PCBs Metals Cyanide TCLP Test Results

- Groundwater Quality in the Vicinity of Quarry No. 4
  - Location of Pertinent Wells
  - Groundwater Flow Direction
  - Groundwater Sample Results:

VOCs SVOCs Metals Cyanide

#### II) 2201/2301 RENAISSANCE PROPERTIES

- Layout of the 2201 and 2301 Properties
  - Construction Activities Completed on 2201
  - Construction Activities Underway on 2301
- Location of Quarry No. 4 in Relationship to 2201/2301
- Capping Activities Completed/Underway on Quarry No. 4

## EPA REGION III SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOC ID 347985 PAGE # AR 000 689

### IMAGERY COVER SHEET UNSCANNABLE ITEM

CRATER RESOURCES

OPERABLE UNIT
ADMINISTRATIVE RECORDS- SECTIONVOLUME
REPORT OR DOCUMENT TITLE RESPONSE to Special
Notice Letter-liberty property trust.
DATE OF DOCUMENT 1-24-01
DESCRIPTON OF IMAGERY Summary of ANALytical
Results For Soil Smigles Collected in quarry.
NUMBER AND TYPE OF IMAGERY ITEM(S) 1 OVERSIZED CHART

TABLE 2 SUMMARY OF ANALYTICAL RESULTS FOR GROUND WATER SAMPLES OBTAINED FROM WELLS LOCATED DOWNGRADIENT OF QUARRY NO. 4<sup>(1)</sup>

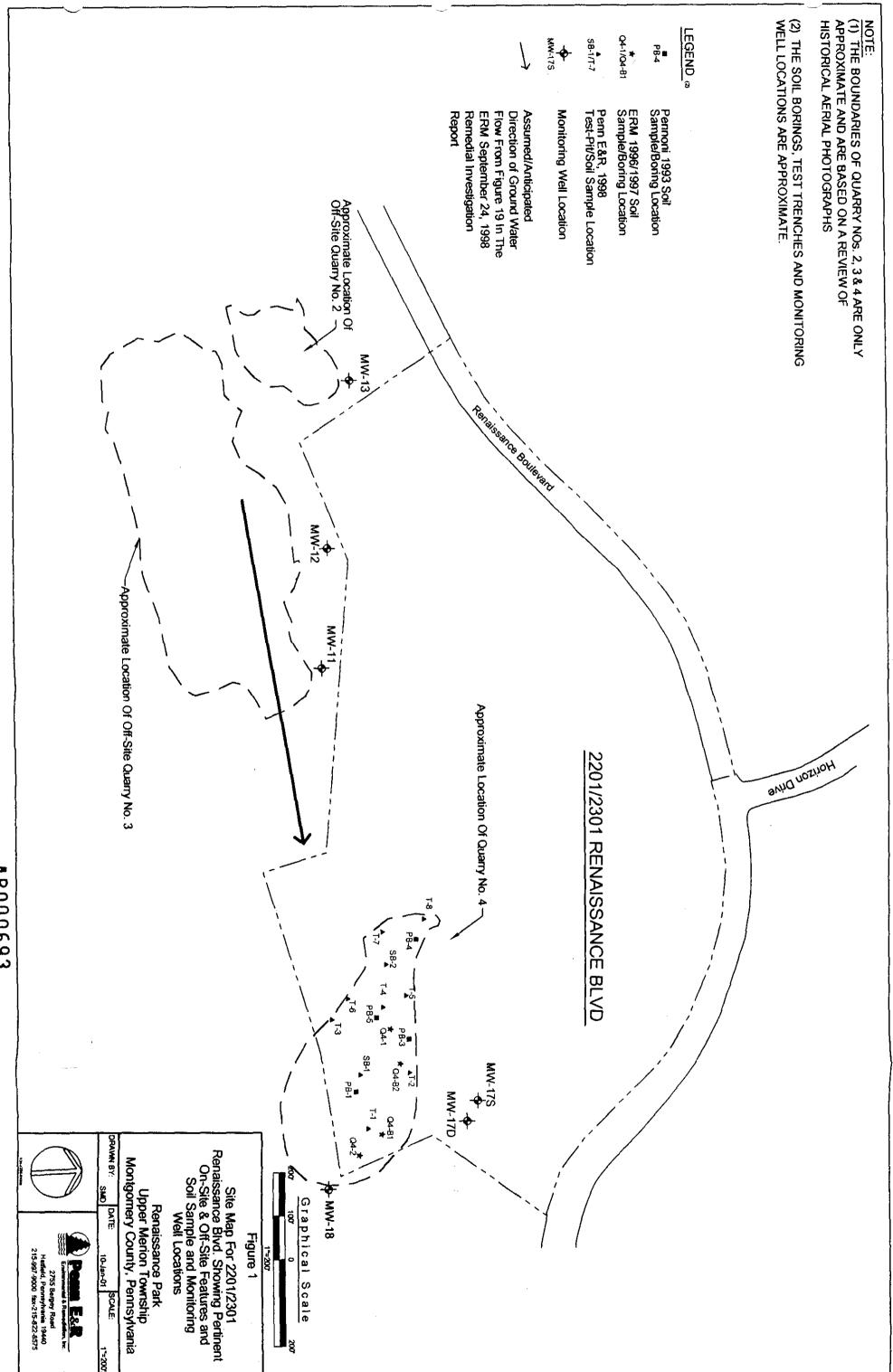
ANALYTICAL	SAMPLE DESIG	PADEP RUA	USEPA		
PARAMETERS	MW-17D	MW-17S	MW-18S	MSC <sup>(3)</sup>	MCL <sup>(4)</sup>
Volatiles:					
Acetone	19.6J	5.0J	3.0UJ	3,700	NSA
Carbon Disulfide	0.68	0.50U	0.50U	1,900	NSA
Methylene Chloride	0.13B	1.1B	0.50U	5	5
Chloroform	0.12J	1.0	0.50U	100	80
2-Butanone	6.7J	3.0UJ	3.0UJ	2,800	NSA
Benzene	1.2	0.50U	0.50U	, 5	5
Toluene	0.86	1.2J	0.50U	1,000	1,000
Ethylbenzene	0.15J	0.50U	0.50U	700	700
Total Xylenes	0.52J	0.50U	0.50U	10,000	10,000
Semivolatiles:	1	1	V.5 0 C	10,000	10,000
Phenol	43	10Ü	10U	4,000	4(5)
2-Methlphenol	0.6	10U	10U	NSA	NSA
4-Methylphenol	1 0.0	10U	10U	NSA	NSA
Napthalene	4	100	10U 10U	100	100(5)
Di-N-Butylphthalate	100	100	0.7B	3,700	NSA
	0.9	3B	18	5,700	NSA
Bis(2-ethylhexyl)phthalate		1		•	
Carbazole Cyanide (total):	4J 74.0	10U 0.67U	10U 0.67U	NSA 200	NSA 200
Metals (Dissolved):	74.0	0.070	0.070	200	200
•	104	10.011	10.077	200	NO.4
Aluminum	184	12.8U	12.8U	200	NSA
Arsenic	2.2U	2.2U	2.2U	50	NSA
Barium	95.4	IIIB	126B	2,000	NSA
Beryllium	0.2UL	0.2UL	0.2UL	4	NSA
Cadmium	0.4UL	0.4UL	0.4UL	5	NSA
Calcium	14,900	41,800	63,900	NSA	NSA
Chromium	17.6	] 1.1U	1.6	100	NSA
Cobalt	4.3B	5.2B	4.88	2,200	NSA
Copper	9.7	1.6U	4.7	1,000	NSA
Iron	152	8.8U	48.3	300	NSA
Lead	2.3UL	2.3UL	2.3UL	5	NSA
Magnesium	3,460	4,910	2,400	NSA	NSA
Manganese	18.4	458	215	50	NSA
Mercury	0.10U	0.21B	0.23	2	NSA
Nickel	5.0B	3.5	6.1B	100	NSA
Potassium	90,700	5,660	2,260	NSA	NSA
Selenium	9.9L	8.0L	21.6L	50	NSA
Sodium	56,600	29,400	5,120	NSA	NSA
Thallium	4.2U	4.2U	4.2U	2	NSA
Vanadium	1,5B	1.6B	1.7B	2	NSA
Zinc	37.1	10.6	155	2,000	NSA
1etals (total):					
Aluminum	24,400	3,060	1,230	NSA	200
Antimony	14.0B	11.5B	12.3B	NSA	6
Arsenic	40.1	5.0B	5.8B	NSA	5
Barium	450	133	54.0	NSA	200
Beryllium	245	0.59L	0.22UL	NSA	4
Cadmium	29.4	0.44UL	0.44UL	NSA	5

# TABLE 2 SUMMARY OF ANALYTICAL RESULTS FOR GROUND WATER SAMPLES OBTAINED FROM WELLS LOCATED DOWNGRADIENT OF QUARRY NO. 4<sup>(1)</sup>

ANALYTICAL PARAMETERS	SAMPLE DESIG	PADEP RUA USEPA			
	MW-17D	MW-17S	MW-18S	MSC(3)	MCL <sup>(4)</sup>
Calcium	635,000	169,000	64,600	NSA	NSA
Chromium	126	10.8	10.8	NSA	100
Cobalt	1,010J	58.8J	3.2B	NSA	NSA
Copper	605	23.7	13.1	NSA	1,300
Iron	57,400	9,330	9,400	NSA	300
Lead	499	102	17.5	NSA	15
Magnesium	17,900	12,900	2,230	NSA	NSA
Manganese	10,800	2,430	288	NSA	50
Mercury	4.3	0.23B	0.23B	NSA	2
Nickel	2,380	53.3	6.4	NSA	100(5)
Potassium	139,000	5,960	2,110	NSA	NSA
Selenium	6.0UL	4.0UL	6.3B	NSA	50
Silver	8.1	2.1	1.6U	NSA	100(5)
Sodium	66,900	23,700	3,580	NSA	NSA
Thallium	11.3L	4.7UL	4.7UL	NSA.	2
Vanadium	35.2	4.9	8.8	NSA	2
Zinc	8,110	85.8	72.2	NSA	5,000

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- (1) Analytical results were obtained from a report prepared by Environmental Resources Management entitled "The Crater Resources Participating Parties Group, Remedial Investigation Report, Crater Resources, Site", dated September 24, 1998.
- (2) All results are reported in micrograms per liter. Also, only those compounds detected above the laboratory detection limit are shown.
- (3) Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Residential Used-Aquifer, Medium Specific Concentration for Organic and Inorganic Substances in Ground Water, August 16, 1997.
- (4)- United States Environmental Protection Agency Drinking Water Standards, Maximum Contaminant Levels, Summer, 2000
- (5)- No USEPA MCL was available for this compound. This is a USEPA Lifetime Health Advisory Level.
- J This result should be considered a quantitative estimate.
- B (Organics) This result is qualitatively invalid because the compound/analyte was also detected in a blank at a similar concentration.
- B (Inorganics) The result is between the estimated quantitation limit and the instrument detection limit
- U This analyte was not detected. The numeric value represents the sample quantitation/detection limit for this analyte.
- D Determined in diluted sample
- UJ This analyte was not detected. The numeric value that represents the quantitation/detection limit for this analyte is a quantitative estimate
- UL This compound was analyzed but not detected. The numerical value that represents the quantitation limit of the compound is a biased low quantitative estimate
- L This result should be considered a biased low quantitative estimate
- K This result should be considered a biased high quantitative estimate
- ND None detected
- PADEP Pennsylvania Department of Environmental Protection
- RUA Residential Used Aquifer
- MSC Medium Specific Concentration
- USEPA United States Environmental Protection Agency
- MCL Maximum Contaminant Level
- NSA No Standard Available
- Bold This compound was detected above its USEPA MCL or PADEP MSC



AR000693

## EPA REGION III SUPERFUND DOCUMENT MANAGEMENT SYSTEM

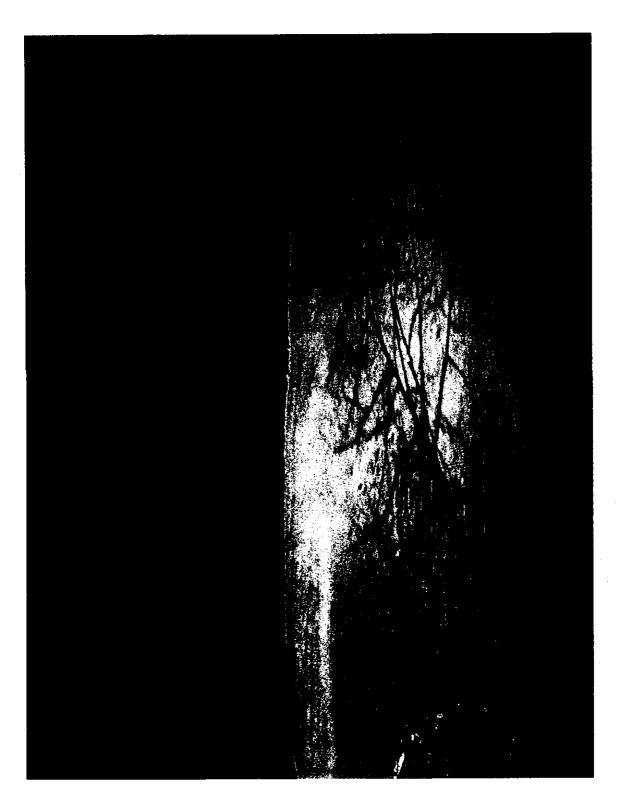
DOC ID 347985 PAGE # HR 000694

### IMAGERY COVER SHEET UNSCANNABLE ITEM

OPERABLE UNIT_UQO
ADMINISTRATIVE RECORDS- SECTIONVOLUME
REPORT OR DOCUMENT TITLE RESPONSE to Special
Notice letter-liberty property trust.
DATE OF DOCUMENT 1-24-01
DESCRIPTON OF IMAGERY SEE 1410ut May For 220/230/
RENAISSANCIE AND Showing the Appointe limits of
Gurrey # 4



Eastern Side of the 2201 Building Showing the Quarry Covered With an Asphalt Parking Lot and Detention Basin



East Side of Detention Basin – Note Slope Of Soil Cover in this Area

2201 Building Looking South